

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
01 STATE 02 SITE NO.



38002

## II. SITE NAME AND LOCATION

01 SITE NAME (Logo, common or descriptive name of site)

Richardson's Flat Tailings

02 STREET, ROUTE NO. OR SPECIFICATION LOCATION IDENTIFIER 03 CITY

NW 1/4 Sec 1 T25 R4E

Park City East Quadrangle

04 STATE 05 ZIP CODE

Utah

06 COUNTY

Summit

07 COUNTY CODE

043

08 CONG DIST.

3

09 COORDINATES: LATITUDE

40 40 42.

LONGITUDE

111 27 05.

10 DIRECTIONS TO SITE (Starting from nearest public road)

Take I80 east from Salt Lake City. Turn south on Heber exit to Keetley June, site is approximately 2000' southeast of Keetley on south side of road next to Park City's landfill.

## III. RESPONSIBLE PARTIES

01 OWNER (if known)

Noranda (Park City Ventures)

02 STREET (Business, mailing, residential)

P.O. Box 1450

03 CITY

Park City

04 STATE

Utah

05 ZIP CODE 06 TELEPHONE NUMBER

(801)649-9414

07 OPERATOR (if known and different from owner)

Park City Ventures

08 STREET (Business, mailing, residential) 09 CITY 10 STATE

P.O. Box 1450

Park City

Utah

11 ZIP CODE 12 TELEPHONE NUMBER

(801)649-9414

13 TYPE OF OWNERSHIP (Check one)

X A. PRIVATE

B. FEDERAL:

C. STATE

D. COUNTY

E. MUNICIPAL

F. OTHER:

G. UNKNOWN

(Specify)

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

A. RCRA 3001 DATE RECEIVED / /

B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED / /

X C. NONE

## IV CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)

X YES DATE 06/04/84

NO

A. EPA B. EPA CONTRACTOR

X C. STATE D. OTHER CONTRACTOR

E. LOCAL HEALTH OFFICIAL

F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (check one)

A. ACTIVE

X B. INACTIVE

C. UNKNOWN

03 YEARS OF OPERATION

BEGINNING YEAR

ENDING YEAR

UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED

The mine tailings at Richardson flat came from the Ontario, Keetley mine. The tailings are next to Silver Creek and numerous small tributaries flow through the tailings. A Mr. Ray Wortley leases the tailings and is using them as backfill for sewer lines.

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
01 STATE 02 SITE NO.

IV CHARACTERIZATION OF POTENTIAL HAZARD

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The tailings contain high levels of lead, arsenic and cadmium which are leachable and could migrate into the surface and groundwater.

V PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

A. HIGH

X B. MEDIUM

(inspection required promptly)

(inspection required)

C. LOW

D. NONE

(inspect on time available basis)

(No further action needed, complete current disposition form)

VI INFORMATION AVAILABLE FROM

01 CONTACT

Don Verbica

02 OF (Agency, Organization)

USHD/BSHW

03 TELEPHONE NUMBER

(801)533-4145

04 PERSON RESPONSIBLE FOR ASSESSMENT

Dale Parker

05 AGENCY

USHD

06 ORGANIZATION

BSHW

07 TELEPHONE NO.

(801)533-4145

08 DATE

07/13/84

EPA FORM 2070-12(7-81)

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION  
01 STATE 02 SITE NO.

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A. SOLID E. SLURRY  
B. POWDER, FINES F. LIQUID  
C. SLUDGE G. GAS  
D. OTHER

(Specify)

02 WASTE QUANTITY AT SITE

(Measures of waste quantities  
must be independent)

\* TONS 7 million

CUBIC YARDS

NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC X E. SOLUBLE I. HIGHLY VOLATILE  
B. CORROSIVE F. INFECTIOUS J. EXPLOSIVE  
C. RADIOACTIVE G. FLAMMABLE K. REACTIVE  
X D. PERSISTENT H. IGNITABLE L. INCOMPATIBLE  
M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	unknown	As	
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown	Pb, Cd	

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Lead	999	SI	31.8 ppm	surface water (total metals)
MES	cadmium	999	SI	.120 ppm	surface water (total metals)
IOC	arsenic	999	SI	.40 ppm	surface water (total metals)

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

sample analysis, state files

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
01 STATE 02 SITE NO.

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL

03 POPULATION POTENTIALLY AFFECTED: 10,000<sup>1</sup>\* ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for the contamination of groundwater. The tailings lie next to Silver Creek and sit on top of old stream sediments (sands and clays). The water table is relatively high due to Silver Creek. The tailings are porous and could be leached, the resulting leachate could migrate into the groundwater.

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL

03 POPULATION POTENTIALLY AFFECTED: 10,000<sup>1</sup>\* ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for the contamination of surface water. Many small tributaries of Silver Creek flow through the tailings and from a pond. Silver Creek lies due west of the site and could be effected by any leachate forming on the tailings.

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 10,000<sup>2</sup>\* 04 NARRATIVE DESCRIPTION

Potential exists for contamination of air. The tailing consists of small particles that are easily air borne. Pictures taken of site show tailings blowing off-site. The tailings contain lead and cadmium which could be harmful if ingested.

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ ALLEGED

04 NARRATIVE DESCRIPTION

Not applicable

01 E. DIRECT CONTACT 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 950<sup>3</sup> 04 NARRATIVE DESCRIPTION

Potential exists for direct contact. There is no fence or guard to prevent people from entering the tailings pond.

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED

03 AREA POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Potential exists for contamination of soil. The tailings are porous and so is the surround soil. The soil has been in continuous contact with the tailings for a number of years. Any leachate formed by the tailings could have contaminated the soil.

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

03 POPULATION POTENTIALLY AFFECTED: 10,000<sup>1</sup> ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for contamination of drinking water by the migration of leachate.

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED

03 WORKERS POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

Mr. Ray Wortley has a lease on the mine tailings and is removing them for use in construction. A few workers load the tailings into dump trucks on-site. These workers could be affected if the tailings are harmful.

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 950<sup>3</sup> 04 NARRATIVE DESCRIPTION

The nearest large population is Park City which is approx. 2 miles from site. There is no means on-site to prevent direct access by the local population.

EPA FORM 2070-12(7-81)1 = 3 mile radius; 2 = 4 mile radius; 3 = 1 mile radius

\*Population of Park City in winter.

EPA

POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION  
01 STATE 02 SITE NO.

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (Date: \_\_\_\_\_) X POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for damage to Flora. Grass and shrubs will not grow on the mine tailings.

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: \_\_\_\_\_) X POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for damage to fauna. Beaver and muskrats live near the site on Silver Creek. Silver Creek is a 3A (water quality) stream, it is a tributary of the Weber River which is a trout stream.

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

04 NARRATIVE DESCRIPTION

Potential exists for contamination of food chain (grass and roots) of beaver and muskrats that live and eat on Silver Creek. Crops that are irrigated by Silver Creek could also be contaminated.

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (Date: \_\_\_\_\_) POTENTIAL  
(Soils/runoff/standing liquids/leaking drums) ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 950<sup>3</sup>

04 NARRATIVE DESCRIPTION

Potential exists for unstable containment of waste. Tailings have been observed blowing off-site.

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

04 NARRATIVE DESCRIPTION

It is alleged that off-site property is being contaminated. Tailings were found on the north side of the highway and they most likely came from Richardson's Flat.

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

POTENTIAL ALLEGED

Unknown at the time this assessment was made.

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: \_\_\_\_\_) POTENTIAL

04 NARRATIVE DESCRIPTION

ALLEGED

Unknown at the time this assessment was made.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED:

IV COMMENTS

State files

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



Photo #1: Ponded water on Richardson's flat tailings



Photo #2: Tailings being blown off-site during a wind storm.



Photo #3: Discolored water in canal made of tailings near Richardson's Flat



Photo #4: Tailings above Richardson's Flat near Silver Creek.

# Site Drawing No. 10 Series

Sample locations





